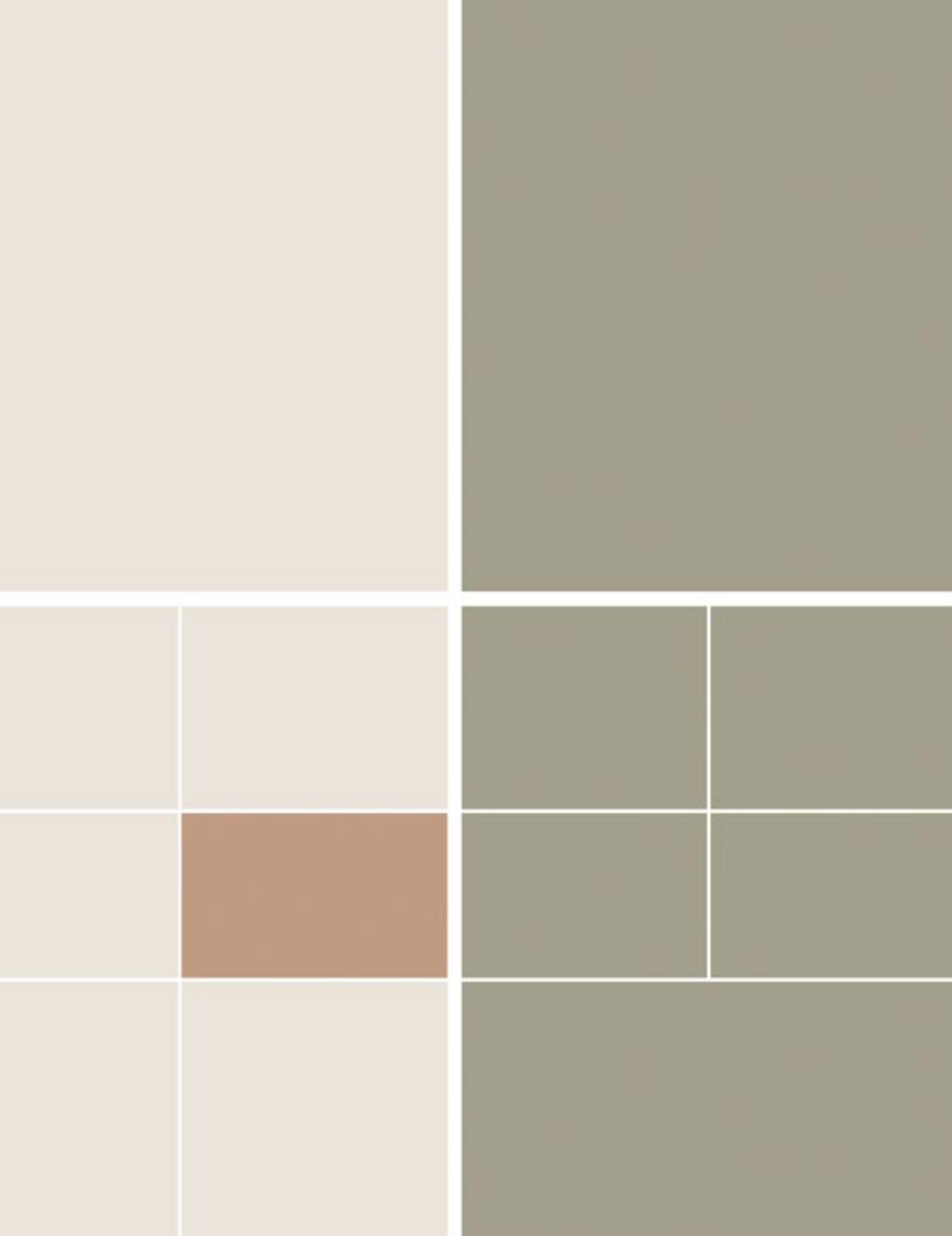


Appendices



Appendix A: Acronyms

A		F	
ac	alternating current	FFT	fast Fourier transform
AD	Associate Director	FID	free induction decay
AGS	Alternating Gradient Synchrotron	FMP	flowing magnetized plasma
AHF	Advanced Hydrotest Facility	FNAL	Fermi National Accelerator Laboratory
ASRT	advanced, single-rotor turbine	FP	flight path
		FSR	free spectral range
		FWHM	full-width at half maximum
B		G	
BATSE	Burst and Transient Source Experiment		
BILBO	backside ion LaGrangian blow-off		
BN	Bechtel Nevada		
BNL	Brookhaven National Laboratory		
BooNE	Booster Neutrino Experiment		
C		H	
CCD	charge-coupled device	HE	high explosive
CERN	European Organization for Nuclear Research (in French)	HiRes	High Resolution Fly's Eye (experiment)
CGC	color glass condensate		
CLEAN	Cryogenic Low-Energy Astrophysics with Neon		
COMPTEL	Imaging Compton Telescope		
CORRTEX	continuous reflectometry for radius versus time experiments		
cw	continuous wave		
D		I	
DARHT	Dual-Axis Radiographic Hydrodynamic Test (facility)	ICF	inertial-confinement fusion
DBD	dielectric barrier discharge	IEC	inertial-electrostatic-confinement (fusion)
dc	direct current	IST	Information Society Technologies
DD	deuterium-deuterium	IVA	inductive-voltage adder
DIS	deep inelastic scattering (lepton-nucleus)		
DOE	U.S. Department of Energy		
DT	deuterium-tritium		
E		J	
EAS	extensive air shower		
EDM	electric dipole moment		
EEG	electroencephalography		
EGRET	Energetic Gamma-Ray Experiment Telescope		
EOS	equation of state		
ESA	Engineering Sciences and Applications (Division)		
F		K	
G		L	
		LAMPF	Los Alamos Meson Physics Facility
		LANL	Los Alamos National Laboratory
		LANSCE	Los Alamos Neutron Science Center
		LDRD	Laboratory-Directed Research and Development
		LDRD-DR	Laboratory-Directed Research and Development-Directed Research
		LDRD-DR	Laboratory-Directed Research and Development-Director's Reserve
		LEH	laser entrance hole
		LLNL	Lawrence Livermore National Laboratory
		LSND	Liquid Scintillator Neutrino Detector
		LSO	lutetium oxyorthosilicate

Appendix A: Acronyms

M			
MCG	magnetocardiography	POPS	periodically oscillating plasma sphere
MCNP	Monte Carlo neutron and photon	PPH	pulsed-power hydrodynamics
MEA	microelectrode array	pRad	proton radiography
MEG	magnetoencephalography	PSD	Pulse Sciences Division (Titan)
ML	magnetically limited	PTW	Preston, Tonks, and Wallace
MMG	magnetomyography		
MR	magnetic resonance	Q	
MRC	Mission Research Corporation	QCD	quantum chromodynamics
MRI	magnetic resonance imaging	QGP	quark-gluon plasma
MRI	magnetorotational instability	QKD	quantum key distribution
MSA	management self-assessment		
MST	Materials Science and Technology (Division)	R	
MTS	mechanical threshold stress	R&D	research and development
MuID	muon identification	rf	radio frequency
		RFSF	radio-frequency spin flipper
		RGA	residual-gas analyzer
N		RHIC	Relativistic Heavy-Ion Collider
nEDM	neutron electric dipole moment	RT	Rayleigh-Taylor
NIF	National Ignition Facility		
NMR	nuclear magnetic resonance	S	
NMT	Nuclear Materials Technology (Division)	SC	stochastic closure
NRL	Naval Research Laboratory	SCE	subcritical experiment
NRS	neutron resonance spectroscopy	SCL	space-charge limited
NTP	nonthermal plasma	SF6	Schott glass
NTS	Nevada Test Site	SG	Steinberg-Guinan
NUEX	neutron experiments	SNL	Sandia National Laboratories
		SNO	Sudbury Neutrino Observatory
O		SPS	super proton synchrotron
OCR	optical comparison resonator	SQUID	superconducting quantum interference device
OFC	optical frequency comb	STAR	Solenoidal Tracker at RHIC
OSSE	Oriented Scintillator Spectrometer Experiment		
P		T	
P	Physics (Division)	THREX	threshold experiments
PCF	photonic crystal fibers	tMTF	temporal modulation transfer function
PDE	partial differential equations	TPC	total project cost
PDF	parton density function		
PDF	probability density function	U	
P-DO	Physics Division Office	UC	University of California
PDRC	Physics Division Review Committee	UCN	ultracold neutrons
PFL	pulse-forming lines	UHECR	ultra-high-energy cosmic rays
PHENIX	Pioneering High-Energy Nuclear Interaction Experiment	ULF	ultra-low-field (NMR)
PINEX	pinhole neutron experiments	V	
PMT	photomultiplier tube	VISAR	velocity interferometer system for any reflector

Appendix A: Acronyms

VLF very low field
VNIIEF All-Russian Scientific Research Institute of Experimental Physics

W
WACT Wide-Angle Cerenkov Telescope
WIMP weakly interacting massive particle

X, Y, Z
X Applied Physics (Division)
XRFC x-ray framing camera
Z impedance

Appendix B: Publications

Appendix B: Publications

2004 Journal Articles

C.E. Aalseth *et al.* (Majorana Collaboration) [including Los Alamos authors: T. Ball, S.R. Elliott, A. Hime, G.B. Mills, R.G. van de Water, J.M. Wouters, and V.I. Yumatov], “The Majorana neutrinoless double-beta decay experiment,” *Physics of Atomic Nuclei* **67**, 2002–2010 (2004).

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Appendix B: Publications

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- J.R. Fincke, J.R. Lanier, S.H. Batha, R.L. Holmes, G.R. Magelssen, C.J. Horsfield, K.W. Parker, and S.D. Rothman, "The effects of convergence on the growth of the Richtmyer-Meshkov and Rayleigh-Taylor instabilities," 28th European Conference on Laser Interaction with Matter, Rome, Italy, September 6–10, 2004, Los Alamos National Laboratory document LA-UR-04-3896.
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